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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/837,902	04/18/2001	Hui Wang	ACMR-001-02US	1040	
20872 7	590 11/16/2005		EXAM	EXAMINER	
MORRISON & FOERSTER LLP 425 MARKET STREET			LEADER, W	LEADER, WILLIAM T	
SAN FRANCISCO, CA 94105-2482			ART UNIT	PAPER NUMBER	
			1742		
		DATE MAILED: 11/16/2005	DATE MAILED: 11/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Ap							
### Disposition of Claims ### Art Unit 1/42 1/42 1/42 1/42 ### The MAILING DATE of this communication appears on the cover sheet with the correspondence address — ### Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time rays be available under the provisions of 37 CFR 1.134(s), in no owner, however, may a ray by a tendel field in 1/4 Departed for rays by active the provisions of 37 CFR 1.134(s), in no owner, however, may a ray by a tendel field in 1/4 Departed for rays by with by statutory period will again set (30) MONTH's from the mailing date of this communication. Failure to septly within the set or extended period for rays by with by statutory period will again set (30) MONTH's from the mailing date of this communication. Failure to greatly within the set or extended period for rays by with by statutory period will again and will always a set of the mailing date of this communication. Experiment of the set of the mailing date of this communication to second ABANDONED (30 U.S.C. § 133). #### Responsive to communication(s) filed on 22 August 2005. #### Responsive to communication(s) filed on 22 August 2005. #### Responsive to communication for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Experte Quayle, 1935 C.D. 11, 453 O.G. 213. #### Disposition of Claims #### Always and the practice under Experte Quayle, 1935 C.D. 11, 453 O.G. 213. #### Disposition of Claims #### Always and the practice under Experted Quayle, 1935 C.D. 11, 453 O.G. 213. #### Disposition of Claims ### Always and the practice of Claims and the practi		Application No.	Applicant(s)				
William T. Leader		09/837,902	WANG, HUI				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provides of 3FC PR. 136(a). In a overth, where, may a reply be limely filed after SIX (6) MXPITES from the mailing date of this communication. Failure to rely wheth the set or exceeded parted for myork. It by statute, use the sequence of the communication of the provided provided the provided parted from the mailing date of this communication. Failure to rely wheth the set or exceeded parted from york. It by statute, use the application become ABANDEOTE 30 ts 2C. § 133). Any reply received by the Office later than three morths after the mailing date of this communication, even if timely field, may reduce any seared parted than 1 the provided parted from the mailing date of this communication, even if timely field, may reduce any seared parted parted than 2 to 22 August 2005. Status 1) □ Responsive to communication(s) filed on 22 August 2005. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 110-159 (slare pending in the application. 4a) Of the above claim(s) 111-115,120-138,140-142 and 149-156 (slare withdrawn from consideration. 5) □ Claim(s) 110-159 (slare pending in the application. 4) □ Claim(s) 10.116-119, 139, 143-148 and 157-159 (slare rejected. 7) □ Claim(s) 10.116-119, 139, 143-148 and 157-159 (slare rejected. 7) □ Claim(s) 10.116-119, 139, 143-148 and 157-159 (slare rejected. 2) □ Claim(s) 10.116-119, 139, 143-148 and 157-159 (slare rejected. 2) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 1 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority unde		ears on the cover sheet with the o	correspondence address				
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DETAILED ACTION

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- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 22, 2005, has been entered.
- 2. Claims 110-159 are pending. In the paper filed on April 23, 2004, applicant elected species 1 and identified claims 110 and 116-119 as reading on the elected species. In the paper filed on February 25, 2005, applicant indicated that additionally filed claims 139, 143-148 and 157-159 read on the elected species. Claims 111-115, 120-138, 140-142 and 149-156 are withdrawn from consideration. Claims 110, 116-119, 139, 143-148 and 157-159 are under consideration.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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4. Claims 110, 116-119, 139, 143-148 and 157-159 are rejected under 35

U.S.C. 102(b) as being anticipated by Japanese patent publication 4-311591 for the reasons given in the previous office action and in view of the following comments.

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Applicant's Remarks have been carefully considered but are not deemed to be 5. persuasive. At page 11 applicant states that the film in the Hirohiko reference is plated across the entire surface of the wafer at one time. Even if this contention were considered to be correct, it is not seen as distinguishing the instant claims as amended from the teaching of Hirohiko. Instant independent claims 110 and 139 are written in open form using the term "comprising". In this type of open claim construction, the claim is open to process steps in addition to those positively recited. Applicant has amended claim 110 to recite the step of plating the film to the desired thickness on at least a second portion of the substrate surface at a different radial location than the first portion to give a film at the desired thickness on the substrate "after plating the film on the first portion of the substrate surface". Claim 139 has been similarly amended. The newly added limitation is considered to require a temporal difference in plating on the first and second portions. That is, plating on a second portion takes place after plating on the first portion. Since the claim is written in open form, the claim as amended is not seen as precluding deposition on the second portion while deposition is being carried out on the first

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portion. Similarly, the claim as amended is not seen as precluding continued deposition on the first portion while the second portion is being plated.

The expression "desired thickness" is considered to include any thickness 6. between the initial deposition thickness and the final thickness obtained at the end of the process. Therefore, while the "desired thickness" may be the final thickness, the expression is not seen as limited to the final thickness. Thus, in a process in which the entire surface is simultaneously plated, a first portion is plated to some desired thickness, while the second portion is simultaneously plated. Hirohiko indicates that precise control is needed if a plating film of precisely uniform film quality, composition and film thickness on a wafer is to be obtained. Because control may no be sufficiently precise to obtain perfectly uniform deposition at all radial position, the second portion may be plated at a slightly slower rate than the first portion. In this case, as deposition across the entire substrate continues, the second portion reached the desired thickness at some time after the first portion as now recited. Consequently, the claim is considered to read on the Hirohiko, even if the reference is interpreted to disclose plating across the entire surface of the wafer at one time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William T. Leader whose telephone number is

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571.272.1245. The examiner can normally be reached on Mondays-Thursdays and

alternate Fridays, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Roy King, can be reached on 571-272-1244. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William Leader

November 8, 2005

SUPERVISORY PATENT EXAMINER

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